

GenCore version 5.1.6  
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"OM nucleic - nucleic search, using sw model"

"Run on: January 10, 2004, 14:23:25 ; Search time 76 Seconds"  
(without alignments)  
807.267 Million cell updates/sec

Title: US-09-925-139-3\_COPY\_1631\_1769  
Perfect score: 139  
Sequence: 1 ggatggggcttgttagcagaa.....ctatcctaaaggcccactgg 139

Scoring table: IDENTITY\_NUC  
" Gapop 10.0 , Gapext 1.0"

"Searched: 569978 seqs, 220691566 residues"

Total number of hits satisfying chosen parameters: 741060

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 65000 summaries

Database : Issued\_Patents\_NA:\*  
1: /cgn2\_6/ptodata/2/ina/5A\_COMB.seq:\*  
2: /cgn2\_6/ptodata/2/ina/5B\_COMB.seq:\*  
3: /cgn2\_6/ptodata/2/ina/6A\_COMB.seq:\*  
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5: /cgn2\_6/ptodata/2/ina/PCTUS\_COMB.seq:\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
" score greater than or equal to the score of the result being printed,"  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score				Query Match	Length	DB	ID
	S/L							
5	18	12.9	18	1	US-08-363-240A-1125		1	
130	15	10.8	15	1	US-08-363-240A-240		1	

131	15	10.8	15	1	US-08-363-240A-241	1
132	15	10.8	15	1	US-08-363-240A-242	1
133	15	10.8	15	1	US-08-363-240A-243	1
134	15	10.8	15	1	US-08-363-240A-244	1
135	15	10.8	15	1	US-08-363-240A-245	1
136	15	10.8	15	1	US-08-363-240A-246	1
137	15	10.8	15	1	US-08-363-240A-247	1
138	15	10.8	15	1	US-08-363-240A-248	1
139	15	10.8	15	1	US-08-363-240A-249	1
140	15	10.8	15	1	US-08-363-240A-250	1
141	15	10.8	15	1	US-08-363-240A-251	1
142	15	10.8	15	1	US-08-363-240A-252	1
143	15	10.8	15	1	US-08-363-240A-253	1
144	15	10.8	15	1	US-08-363-240A-254	1
145	15	10.8	15	1	US-08-363-240A-255	1
146	15	10.8	15	1	US-08-363-240A-256	1
c30305	10	7.2	10	1	US-08-171-718-43	1
c30306	10	7.2	10	3	US-08-388-353-425	1
c30307	10	7.2	10	3	US-08-388-353-501	1
c30308	10	7.2	10	3	US-08-388-353-502	1
c30309	10	7.2	10	3	US-08-488-551B-425	1
c30310	10	7.2	10	3	US-08-488-551B-501	1
c30311	10	7.2	10	3	US-08-488-551B-502	1
c30312	10	7.2	10	3	US-08-488-551B-819	1
c30313	10	7.2	10	3	US-08-488-551B-820	1
c30314	10	7.2	10	3	US-08-478-087-43	1
c7675	11.4	8.2	13	3	US-08-544-381B-27	0.876923077
c7676	11.4	8.2	13	4	US-08-778-794A-85	0.876923077
c7677	11.4	8.2	13	4	US-09-922-445-17	0.876923077
7678	11.4	8.2	13	4	US-09-922-445-27	0.876923077
1332	13	9.4	15	1	US-08-363-240A-758	0.866666667
1333	13	9.4	15	1	US-08-363-240A-759	0.866666667
53211	9.4	6.8	11	3	US-08-757-024-530	0.854545455
c53212	9.4	6.8	11	4	US-09-617-548-12	0.854545455
53213	9.4	6.8	11	4	US-09-249-155A-43	0.854545455
53214	9.4	6.8	11	4	US-09-249-155A-181	0.854545455
c53215	9.4	6.8	11	5	PCT-US94-08023-37	0.854545455
30315	10	7.2	12	2	US-08-173-489C-255	0.833333333
30316	10	7.2	12	3	US-08-889-502-3	0.833333333
30317	10	7.2	12	3	US-08-889-502-16	0.833333333
c30318	10	7.2	12	4	US-08-192-943-11	0.833333333
2679	12.4	8.9	15	1	US-07-912-900-11	0.826666667
2680	12.4	8.9	15	1	US-08-285-309-11	0.826666667
2681	12.4	8.9	15	2	US-08-502-046-11	0.826666667
7679	11.4	8.2	14	3	US-08-913-833-9	0.814285714
7680	11.4	8.2	14	4	US-09-580-794C-9	0.814285714
c5128	11.8	8.5	15	1	US-08-310-501-4	0.786666667
c5129	11.8	8.5	15	1	US-08-469-177-4	0.786666667
c5130	11.8	8.5	15	1	US-08-484-551-1	0.786666667
c5131	11.8	8.5	15	1	US-08-484-551-5	0.786666667
c5132	11.8	8.5	15	1	US-08-486-962-18	0.786666667
5133	11.8	8.5	15	3	US-08-913-833-5	0.786666667
5134	11.8	8.5	15	4	US-09-580-794C-5	0.786666667
c5135	11.8	8.5	15	4	US-09-813-781-48	0.786666667
53216	9.4	6.8	12	1	US-08-192-300-5	0.783333333
c53217	9.4	6.8	12	1	US-08-221-816B-27	0.783333333
53218	9.4	6.8	12	2	US-08-441-887A-338	0.783333333

53219	9.4	6.8	12	2	US-08-441-887A-339	0.783333333
53220	9.4	6.8	12	3	US-08-757-024-501	0.783333333
53221	9.4	6.8	12	3	US-08-757-024-529	0.783333333
53222	9.4	6.8	12	3	US-07-794-396-6	0.783333333
c53223	9.4	6.8	12	3	US-08-959-853-8	0.783333333
53224	9.4	6.8	12	3	US-08-713-742-8	0.783333333
53225	9.4	6.8	12	3	US-08-211-882-5	0.783333333
53226	9.4	6.8	12	3	US-08-211-882-9	0.783333333
53227	9.4	6.8	12	3	US-09-372-856-8	0.783333333
c53228	9.4	6.8	12	3	US-09-281-418-20	0.783333333
c53229	9.4	6.8	12	3	US-09-281-418-74	0.783333333
53230	9.4	6.8	12	4	US-09-688-394-8	0.783333333
53231	9.4	6.8	12	4	US-09-633-659-5	0.783333333
53232	9.4	6.8	12	4	US-09-633-659-9	0.783333333
c53233	9.4	6.8	12	4	US-10-112-547-27	0.783333333
53234	9.4	6.8	12	6	5240847-3	0.783333333
c53235	9.4	6.8	12	6	5427911-12	0.783333333
53236	9.4	6.8	12	6	5427911-14	0.783333333
c2682	12.4	8.9	16	1	US-07-696-793A-22	0.775
c2683	12.4	8.9	16	1	US-07-977-694-22	0.775
c2684	12.4	8.9	16	1	US-08-255-264-24	0.775
c2685	12.4	8.9	16	3	US-08-161-674B-20	0.775
c2686	12.4	8.9	16	4	US-09-371-772B-5908	0.775
14237	10.8	7.8	14	2	US-08-173-489C-179	0.771428571
14238	10.8	7.8	14	3	US-08-913-833-4	0.771428571
14239	10.8	7.8	14	4	US-09-580-794C-4	0.771428571
c7681	11.4	8.2	15	1	US-08-111-076-17	0.76
c7682	11.4	8.2	15	1	US-08-398-305-17	0.76
7683	11.4	8.2	15	1	US-08-182-968A-452	0.76
c7684	11.4	8.2	15	1	US-08-705-225-17	0.76
7685	11.4	8.2	15	1	US-08-513-841-16	0.76
7686	11.4	8.2	15	2	US-08-696-834-17	0.76
7687	11.4	8.2	15	2	US-08-942-673-16	0.76
7688	11.4	8.2	15	2	US-08-774-306A-452	0.76
7689	11.4	8.2	15	3	US-09-064-156A-452	0.76
7690	11.4	8.2	15	3	US-09-118-317-16	0.76
c36250	9.8	7.1	13	3	US-08-544-381B-19	0.753846154
c36251	9.8	7.1	13	3	US-08-544-381B-23	0.753846154
c36252	9.8	7.1	13	3	US-08-544-381B-24	0.753846154
c36253	9.8	7.1	13	3	US-08-544-381B-26	0.753846154
c36254	9.8	7.1	13	3	US-08-544-381B-28	0.753846154
c36255	9.8	7.1	13	3	US-08-544-381B-29	0.753846154
c36256	9.8	7.1	13	4	US-08-778-794A-77	0.753846154
c36257	9.8	7.1	13	4	US-08-778-794A-81	0.753846154
c36258	9.8	7.1	13	4	US-08-778-794A-84	0.753846154
c36259	9.8	7.1	13	4	US-08-778-794A-86	0.753846154
c36260	9.8	7.1	13	4	US-08-778-794A-87	0.753846154
c36261	9.8	7.1	13	4	US-09-922-445-16	0.753846154
36262	9.8	7.1	13	4	US-09-922-445-26	0.753846154
c1647	12.8	9.2	17	1	US-08-486-962-12	0.752941176
c1648	12.8	9.2	17	4	US-08-584-040-7909	0.752941176
c1649	12.8	9.2	17	4	US-09-371-772B-3692	0.752941176
c1650	12.8	9.2	17	5	PCT-US94-06284-12	0.752941176
4138	12	8.6	16	4	US-09-586-376-5	0.75
c20928	10.4	7.5	14	3	US-08-985-162-1849	0.742857143
c20929	10.4	7.5	14	4	US-08-535-249-90	0.742857143
c43710	9.6	6.9	13	3	US-08-544-381B-13	0.738461538

c43711	9.6	6.9	13	4	US-08-778-794A-71	0.738461538
c43712	9.6	6.9	13	4	US-08-778-794A-95	0.738461538
c5136	11.8	8.5	16	1	US-08-486-962-14	0.7375
c5137	11.8	8.5	16	3	US-08-975-522A-6	0.7375
27	16.2	11.7	22	3	US-08-927-219-102	0.736363636
c1055	13.2	9.5	18	1	US-08-802-547-12	0.733333333
c1056	13.2	9.5	18	1	US-08-712-357-12	0.733333333
1057	13.2	9.5	18	3	US-09-255-912-28	0.733333333
1058	13.2	9.5	18	3	US-09-280-409-75	0.733333333
c1059	13.2	9.5	18	3	US-09-723-534-10	0.733333333
c1060	13.2	9.5	18	4	US-09-721-822A-116	0.733333333
c1061	13.2	9.5	18	4	US-09-077-619-15	0.733333333
11453	11	7.9	15	4	US-09-081-646-218	0.733333333
11454	11	7.9	15	4	US-09-081-646-855	0.733333333
c2687	12.4	8.9	17	1	US-07-696-793A-20	0.729411765
c2688	12.4	8.9	17	1	US-07-977-694-20	0.729411765
c2689	12.4	8.9	17	4	US-09-371-772B-4993	0.729411765
53237	9.4	6.8	13	1	US-08-123-449A-17	0.723076923
53238	9.4	6.8	13	1	US-08-458-050-17	0.723076923
c53239	9.4	6.8	13	1	US-08-667-023-3	0.723076923
c53240	9.4	6.8	13	2	US-08-671-975A-17	0.723076923
53241	9.4	6.8	13	3	US-08-757-024-471	0.723076923
53242	9.4	6.8	13	3	US-08-757-024-500	0.723076923
53243	9.4	6.8	13	3	US-08-757-024-528	0.723076923
53244	9.4	6.8	13	3	US-08-950-196-17	0.723076923
c53245	9.4	6.8	13	4	US-09-474-432B-120	0.723076923
53246	9.4	6.8	13	4	US-09-216-584-18	0.723076923
14240	10.8	7.8	15	1	US-07-998-973A-18	0.72
c14241	10.8	7.8	15	1	US-08-479-248-1	0.72
14242	10.8	7.8	15	1	US-08-479-248-2	0.72
14243	10.8	7.8	15	1	US-08-462-305-8	0.72
c14244	10.8	7.8	15	1	US-08-363-240A-602	0.72
c14245	10.8	7.8	15	1	US-08-363-240A-603	0.72
c14246	10.8	7.8	15	1	US-08-311-486C-598	0.72
c14247	10.8	7.8	15	1	US-08-311-486C-599	0.72
14248	10.8	7.8	15	2	US-08-613-417A-8	0.72
14249	10.8	7.8	15	2	US-08-585-684B-2047	0.72
14250	10.8	7.8	15	2	US-08-452-800-18	0.72
14251	10.8	7.8	15	3	US-08-594-452-8	0.72
14252	10.8	7.8	15	3	US-08-578-686C-7	0.72
14253	10.8	7.8	15	3	US-09-094-405-8	0.72
14254	10.8	7.8	15	3	US-09-258-408-8	0.72
14255	10.8	7.8	15	3	US-09-196-132-8	0.72
14256	10.8	7.8	15	3	US-09-144-112-7	0.72
14257	10.8	7.8	15	3	US-09-038-073-2047	0.72
14258	10.8	7.8	15	3	US-08-410-390-3	0.72
14259	10.8	7.8	15	4	US-08-895-981-8	0.72
14260	10.8	7.8	15	4	US-08-337-120A-8	0.72
14261	10.8	7.8	15	4	US-09-643-233-7	0.72
14262	10.8	7.8	15	5	PCT-US92-11353-18	0.72
3306	12.2	8.8	17	1	US-08-373-124A-1709	0.717647059
3307	12.2	8.8	17	1	US-08-435-628-1709	0.717647059
3308	12.2	8.8	17	4	US-08-292-492D-6	0.717647059
c30319	10	7.2	14	1	US-08-434-503-10	0.714285714
c7691	11.4	8.2	16	1	US-07-696-793A-18	0.7125
c7692	11.4	8.2	16	1	US-07-977-694-18	0.7125
7693	11.4	8.2	16	1	US-08-303-004-32	0.7125

c1651	12.8	9.2	18	1	US-08-486-962-15	0.7111111111
1652	12.8	9.2	18	2	US-08-671-975A-7	0.7111111111
1653	12.8	9.2	18	3	US-09-280-409-109	0.7111111111
1654	12.8	9.2	18	3	US-09-280-409-142	0.7111111111
c1655	12.8	9.2	18	5	PCT-US94-06284-15	0.7111111111
c 374	14.2	10.2	20	1	US-08-227-370-2	0.71
c 375	14.2	10.2	20	1	US-08-486-962-4	0.71
c 376	14.2	10.2	20	1	US-08-458-347-1	0.71
c 377	14.2	10.2	20	3	US-08-975-522A-5	0.71
c 378	14.2	10.2	20	3	US-09-103-875-123	0.71
c 379	14.2	10.2	20	4	US-09-798-096-16	0.71
380	14.2	10.2	20	4	US-08-754-477A-109	0.71
c 381	14.2	10.2	20	5	PCT-US94-06284-2	0.71
36263	9.8	7.1	14	3	US-08-913-833-8	0.7
36264	9.8	7.1	14	4	US-09-580-794C-8	0.7
c36265	9.8	7.1	14	4	US-09-328-174A-40	0.7
36266	9.8	7.1	14	4	US-09-230-652-23	0.7
c9225	11.2	8.1	16	1	US-07-696-793A-7	0.7
c9226	11.2	8.1	16	1	US-07-696-793A-9	0.7
c9227	11.2	8.1	16	1	US-07-977-694-7	0.7
c9228	11.2	8.1	16	1	US-07-977-694-9	0.7
c9229	11.2	8.1	16	3	US-08-872-917-11	0.7
c9230	11.2	8.1	16	4	US-09-371-772B-5657	0.7
c9231	11.2	8.1	16	4	US-09-371-772B-5658	0.7
c9232	11.2	8.1	16	4	US-09-371-772B-5954	0.7

"OM nucleic - nucleic search, using sw model"

"Run on: January 10, 2004, 14:32:25 ; Search time 310 Seconds"  
(without alignments)  
1557.075 Million cell updates/sec

Title: US-09-925-139-3\_COPY\_1631\_1769  
Perfect score: 139  
Sequence: 1 ggatgggggctttagtagcagaa.....ctatcctaaaggcccactgg 139

Scoring table: IDENTITY\_NUC  
" Gapop 10.0 , Gapext 1.0"

"Searched: 2276164 seqs, 1736306516 residues"

Total number of hits satisfying chosen parameters: 1255570

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 65000 summaries

Database : Published Applications\_NA:\*

- 1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*
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- 9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq:\*
- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq2:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*
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- 18: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a  
" score greater than or equal to the score of the result being printed,"  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score				Query Match S/L	Length	DB	ID
c 1	20	14.4	20	11	US-09-802-640-52	1		
c 2	20	14.4	20	11	US-09-925-139-5	1		
c 3	20	14.4	20	11	US-09-925-139-28	1		
c 4	20	14.4	20	11	US-09-925-139-29	1		
c 5	20	14.4	20	11	US-09-925-139-30	1		
c 6	20	14.4	20	11	US-09-925-139-47	1		
c 7	20	14.4	20	11	US-09-925-139-48	1		
c 8	20	14.4	20	11	US-09-925-139-49	1		
c 9	20	14.4	20	11	US-09-925-139-50	1		
c12155		11.4	8.2	13	13 US-09-510-378-27		0.876923077	
c12156		11.4	8.2	13	13 US-09-798-260-85		0.876923077	
c 257	14.4	10.4	17	11	US-09-827-395A-480		0.847058824	
c 258	14.4	10.4	17	11	US-09-827-395A-481		0.847058824	
c49291		10	7.2	12	10 US-09-757-049A-42		0.833333333	
c49292		10	7.2	12	13 US-10-325-403-11		0.833333333	
12157	11.4	8.2	14	11	US-09-943-983-9		0.814285714	
686	13.8	9.9	17	11	US-09-877-478-302		0.811764706	
687	13.8	9.9	17	11	US-09-877-478-303		0.811764706	
688	13.8	9.9	17	11	US-09-877-478-1613		0.811764706	
c 689	13.8	9.9	17	11	US-09-877-478-2360		0.811764706	
40	16.8	12.1	21	13	US-10-257-080-5	0.8		
2123	12.8	9.2	16	12	US-10-174-465-6	0.8		
2124	12.8	9.2	16	12	US-10-348-431-6	0.8		
c1120	13.4	9.6	17	11	US-09-877-478-1745		0.788235294	
c1121	13.4	9.6	17	11	US-09-827-395A-989		0.788235294	
8334	11.8	8.5	15	11	US-09-877-478-6527		0.786666667	
8335	11.8	8.5	15	11	US-09-943-983-5	0.786666667		
22548	10.8	7.8	14	11	US-09-943-983-4	0.771428571		
c49293		10	7.2	13	9 US-09-865-644-15		0.769230769	
49294	10	7.2	13	12	US-10-446-901-7	0.769230769		
c1702	13	9.4	17	11	US-09-877-478-2361		0.764705882	
117	15.2	10.9	20	13	US-09-865-879-19	0.76		
12158	11.4	8.2	15	9	US-09-504-231A-474		0.76	
12159	11.4	8.2	15	9	US-09-274-553D-474		0.76	
c58682		9.8	7.1	13	13 US-09-510-378-19		0.753846154	
c58683		9.8	7.1	13	13 US-09-510-378-23		0.753846154	
c58684		9.8	7.1	13	13 US-09-510-378-24		0.753846154	
c58685		9.8	7.1	13	13 US-09-510-378-26		0.753846154	
c58686		9.8	7.1	13	13 US-09-510-378-28		0.753846154	
c58687		9.8	7.1	13	13 US-09-510-378-29		0.753846154	
c58688		9.8	7.1	13	13 US-09-798-260-77		0.753846154	
c58689		9.8	7.1	13	13 US-09-798-260-81		0.753846154	
c58690		9.8	7.1	13	13 US-09-798-260-84		0.753846154	
c58691		9.8	7.1	13	13 US-09-798-260-86		0.753846154	
c58692		9.8	7.1	13	13 US-09-798-260-87		0.753846154	
2125	12.8	9.2	17	11	US-09-877-478-994	0.752941176		
2126	12.8	9.2	17	11	US-09-877-478-1614		0.752941176	
2127	12.8	9.2	17	11	US-09-848-754A-2544		0.752941176	
c2128	12.8	9.2	17	12	US-10-297-068-1050		0.752941176	
7015	12	8.6	16	15	US-10-232-634-5	0.75		
c33816		10.4	7.5	14	13 US-10-027-632-51889		0.742857143	

c33817	10.4	7.5	14	13	US-10-027-632-51894	0.742857143
c33818	10.4	7.5	14	14	US-10-027-632-51889	0.742857143
c33819	10.4	7.5	14	14	US-10-027-632-51894	0.742857143
c33820	10.4	7.5	14	15	US-10-146-058-90	0.742857143
c 183	14.8	10.6	20	15	US-10-005-956-1205	0.74
c3712	12.4	8.9	17	11	US-09-818-875-3470	0.729411765
3713	12.4	8.9	17	11	US-09-818-875-3471	0.729411765
c3714	12.4	8.9	17	11	US-09-877-478-386	0.729411765
c3715	12.4	8.9	17	11	US-09-827-395A-479	0.729411765
c3716	12.4	8.9	17	11	US-09-827-395A-990	0.729411765
c3717	12.4	8.9	17	13	US-10-209-787-3470	0.729411765
3718	12.4	8.9	17	13	US-10-209-787-3471	0.729411765
22549	10.8	7.8	15	10	US-09-263-959-672	0.72
22550	10.8	7.8	15	10	US-09-263-959-708	0.72
22551	10.8	7.8	15	10	US-09-860-784-8	0.72
22552	10.8	7.8	15	10	US-09-835-371-5	0.72
22553	10.8	7.8	15	11	US-09-835-370-5	0.72
c22554	10.8	7.8	15	11	US-09-880-313A-49	0.72
22555	10.8	7.8	15	12	US-10-418-182-186	0.72
22556	10.8	7.8	15	13	US-09-793-146-7	0.72
22557	10.8	7.8	15	13	US-10-440-850-823	0.72
c22558	10.8	7.8	15	15	US-10-010-802-130	0.72
259	14.4	10.4	20	13	US-10-032-585-5725	0.72
4521	12.2	8.8	17	9	US-09-866-108-527	0.717647059
4522	12.2	8.8	17	9	US-09-866-108-528	0.717647059
c4523	12.2	8.8	17	9	US-09-866-108-1264	0.717647059
4524	12.2	8.8	17	9	US-09-866-108-7831	0.717647059
c4525	12.2	8.8	17	9	US-09-866-108-9658	0.717647059
4526	12.2	8.8	17	9	US-09-416-384A-26	0.717647059
4527	12.2	8.8	17	10	US-09-864-785-1557	0.717647059
c4528	12.2	8.8	17	10	US-09-864-785-2921	0.717647059
c4529	12.2	8.8	17	10	US-09-864-785-2922	0.717647059
4530	12.2	8.8	17	11	US-09-780-533A-576	0.717647059
c4531	12.2	8.8	17	11	US-09-877-478-2359	0.717647059
4532	12.2	8.8	17	11	US-09-848-754A-1430	0.717647059
4533	12.2	8.8	17	11	US-09-848-754A-1500	0.717647059
4534	12.2	8.8	17	13	US-10-061-201-1606	0.717647059
4535	12.2	8.8	17	13	US-10-061-201-1608	0.717647059
4536	12.2	8.8	17	13	US-10-061-201-1612	0.717647059
c4537	12.2	8.8	17	13	US-10-061-201-1762	0.717647059
c4538	12.2	8.8	17	13	US-10-061-201-1763	0.717647059
4539	12.2	8.8	17	13	US-10-339-793-72	0.717647059
4540	12.2	8.8	17	15	US-10-060-756A-752	0.717647059
4541	12.2	8.8	17	15	US-10-163-552-471	0.717647059
380	14.2	10.2	20	15	US-10-238-011-39	0.71
c 381	14.2	10.2	20	15	US-10-001-076-147	0.71
382	14.2	10.2	20	15	US-10-105-004-109	0.71
383	14.2	10.2	20	15	US-10-007-078-60	0.71
c7016	12	8.6	17	11	US-09-827-395A-755	0.705882353
7017	12	8.6	17	13	US-10-061-201-945	0.705882353
7018	12	8.6	17	13	US-10-061-201-946	0.705882353
7019	12	8.6	17	13	US-10-061-201-947	0.705882353
7020	12	8.6	17	13	US-10-061-201-948	0.705882353
7021	12	8.6	17	13	US-10-061-201-949	0.705882353
7022	12	8.6	17	13	US-10-061-201-950	0.705882353
c 184	14.8	10.6	21	13	US-10-044-423-19	0.704761905
58693	9.8	7.1	14	9	US-09-238-351-77	0.7



c58694	9.8	7.1	14	10	US-09-823-847-24	0.7
58695	9.8	7.1	14	11	US-09-943-983-8	0.7
58696	9.8	7.1	14	13	US-09-848-868-6	0.7
58697	9.8	7.1	14	13	US-10-356-625-23	0.7
c58698	9.8	7.1	14	13	US-10-091-281-372	0.7
c58699	9.8	7.1	14	15	US-10-206-839-40	0.7
c14664	11.2	8.1	16	13	US-10-091-281-319	0.7
c14665	11.2	8.1	16	15	US-10-043-875-261	0.7

GenCore version 5.1.6  
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"OM nucleic - nucleic search, using sw model"

"Run on: January 10, 2004, 14:14:50 ; Search time 2411 Seconds"  
(without alignments)  
1401.212 Million cell updates/sec

Title: US-09-925-139-3\_COPY\_1631\_1769  
Perfect score: 139  
Sequence: 1 ggatggggcttgtagcagaa.....ctatcctaaaggccactgg 139

Scoring table: IDENTITY\_NUC  
" Gapop 10.0 , Gapext 1.0"

"Searched: 22781392 seqs, 12152238056 residues"

Total number of hits satisfying chosen parameters: 124324

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 65000 summaries

Database : EST:\*

- 1: em\_estba:\*
- 2: em\_esthum:\*
- 3: em\_estin:\*
- 4: em\_estmu:\*
- 5: em\_estov:\*
- 6: em\_estpl:\*
- 7: em\_estro:\*
- 8: em\_htc:\*
- 9: gb\_est1:\*
- 10: gb\_est2:\*
- 11: gb\_htc:\*
- 12: gb\_est3:\*
- 13: gb\_est4:\*
- 14: gb\_est5:\*
- 15: em\_estfun:\*
- 16: em\_estom:\*
- 17: em\_gss\_hum:\*
- 18: em\_gss\_inv:\*
- 19: em\_gss\_pln:\*
- 20: em\_gss\_vrt:\*
- 21: em\_gss\_fun:\*
- 22: em\_gss\_mam:\*
- 23: em\_gss\_mus:\*
- 24: em\_gss\_pro:\*
- 25: em\_gss\_rod:\*
- 26: em\_gss\_phg:\*
- 27: em\_gss\_vrl:\*
- 28: gb\_gss1:\*

29: gb\_gss2:\*

" Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,"  
and is derived by analysis of the total score distribution.

SUMMARIES

%

Result					Query	
No.		Score		Match	Length	ID
			S/L			
29851	8.8	6.3	12	28	BH169696	0.733333333
40089	8.4	6	12	13	BQ587766	0.7

GenCore version 5.1.6  
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"OM nucleic - nucleic search, using sw model"

"Run on: January 10, 2004, 12:53:45 ; Search time 2706 Seconds"  
(without alignments)  
2101.418 Million cell updates/sec

Title: US-09-925-139-3\_COPY\_1631\_1769  
Perfect score: 139  
Sequence: 1 ggatggggccttgttagcagaa.....ctatcctaaaggcccactgg 139

Scoring table: IDENTITY\_NUC  
" Gapop 10.0 , Gapext 1.0"

"Searched: 2888711 seqs, 20454813386 residues"

Total number of hits satisfying chosen parameters: 1314098

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 65000 summaries

Database : GenEmbl:\*  
1: gb\_ba:\*  
2: gb\_htg:\*  
3: gb\_in:\*  
4: gb\_om:\*  
5: gb\_ov:\*  
6: gb\_pat:\*  
7: gb\_ph:\*  
8: gb\_pl:\*  
9: gb\_pr:\*  
10: gb\_ro:\*  
11: gb\_sts:\*  
12: gb\_sy:\*  
13: gb\_un:\*  
14: gb\_vi:\*  
15: em\_ba:\*  
16: em\_fun:\*  
17: em\_hum:\*  
18: em\_in:\*  
19: em\_mu:\*  
20: em\_om:\*  
21: em\_or:\*  
22: em\_ov:\*  
23: em\_pat:\*  
24: em\_ph:\*  
25: em\_pl:\*  
26: em\_ro:\*  
27: em\_sts:\*  
28: em\_un:\*

29: em\_vi:\*  
 30: em\_htg\_hum:\*  
 31: em\_htg\_inv:\*  
 32: em\_htg\_other:\*  
 33: em\_htg\_mus:\*  
 34: em\_htg\_pln:\*  
 35: em\_htg\_rod:\*  
 36: em\_htg\_mam:\*  
 37: em\_htg\_vrt:\*  
 38: em\_sy:\*  
 39: em\_htgo\_hum:\*  
 40: em\_htgo\_mus:\*  
 41: em\_htgo\_other:\*

Pred. No. is the number of results predicted by chance to have a  
 " score greater than or equal to the score of the result being printed,"  
 and is derived by analysis of the total score distribution.

# SUMMARIES

8

Result No.	Score			Query Match	Length	DB	ID
	S/L						
c 1 21	15.1	21	6	BD102270	1		
18924 11	7.9	11	6	AX623106	1		
18925 11	7.9	11	6	AX630527	1		
c50540	10	7.2	10	6 AR098907	1		
50541 10	7.2	10	6	AX301720	1		
c50542	10	7.2	10	6 BD161179	1		
c50543	10	7.2	10	6 BD161279	1		
c50544	10	7.2	10	6 I79747	1		
c50545	10	7.2	11	6 AX471317	0.909090909		
50546 10	7.2	11	6	AX471659	0.909090909		
c50547	10	7.2	11	6 AX471723	0.909090909		
c50548	10	7.2	11	6 AX622975	0.909090909		
c50549	10	7.2	11	6 AX624360	0.909090909		
50550 10	7.2	11	6	AX625117	0.909090909		
50551 10	7.2	11	6	AX625409	0.909090909		
50552 10	7.2	11	6	AX625899	0.909090909		
c50553	10	7.2	11	6 AX626201	0.909090909		
50554 10	7.2	11	6	AX626758	0.909090909		
50555 10	7.2	11	6	AX627300	0.909090909		
c50556	10	7.2	11	6 AX627599	0.909090909		
50557 10	7.2	11	6	AX628274	0.909090909		
50558 10	7.2	11	6	AX629280	0.909090909		
c50559	10	7.2	11	6 AX630396	0.909090909		
c50560	10	7.2	11	6 AX631781	0.909090909		
50561 10	7.2	11	6	AX632538	0.909090909		
c12552	11.4	8.2	13	6 AR175362	0.876923077		
c12553	11.4	8.2	13	6 AR285094	0.876923077		
12554 11.4	8.2	13	6	AR285104	0.876923077		

50562	10	7.2	12	6	AR030066	0.833333333
c50563	10	7.2	12	6	AR303946	0.833333333
4518	12.4	8.9	15	6	A28990	0.826666667
4519	12.4	8.9	15	6	AR030911	0.826666667
4520	12.4	8.9	15	6	I28303	0.826666667
12555	11.4	8.2	14	6	A64221	0.814285714
12556	11.4	8.2	14	6	AR102520	0.814285714
12557	11.4	8.2	14	6	AR262823	0.814285714
c12558	11.4	8.2	14	6	BD061635	0.814285714
35	16.8	12.1	21	6	BD101979	0.8
36	16.8	12.1	21	6	BD131270	0.8
2812	12.8	9.2	16	6	AX710950	0.8
2813	12.8	9.2	16	6	BD001091	0.8
2814	12.8	9.2	16	6	BD001520	0.8
1488	13.4	9.6	17	6	AX723714	0.788235294
8403	11.8	8.5	15	6	A64217	0.786666667
c8404	11.8	8.5	15	6	AR011805	0.786666667
8405	11.8	8.5	15	6	AR102516	0.786666667
c8406	11.8	8.5	15	6	AR213614	0.786666667
8407	11.8	8.5	15	6	AR262819	0.786666667
c8408	11.8	8.5	15	6	BD057672	0.786666667
c8409	11.8	8.5	15	6	BD081502	0.786666667
c8410	11.8	8.5	15	6	BD090530	0.786666667
c8411	11.8	8.5	15	6	BD090534	0.786666667
c8412	11.8	8.5	15	6	I27821	0.786666667
c8413	11.8	8.5	15	6	I36660	0.786666667
c8414	11.8	8.5	15	6	I83457	0.786666667
c8415	11.8	8.5	15	6	I83461	0.786666667
26	17.2	12.4	22	6	E25734	0.781818182
c4521	12.4	8.9	16	6	AR127505	0.775
4522	12.4	8.9	16	6	AX039862	0.775
c4523	12.4	8.9	16	6	AX135793	0.775
c4524	12.4	8.9	16	6	I50742	0.775
10295	11.6	8.3	15	6	AX007253	0.773333333
23648	10.8	7.8	14	6	A64216	0.771428571
c23649	10.8	7.8	14	6	A88858	0.771428571
23650	10.8	7.8	14	6	AR029990	0.771428571
23651	10.8	7.8	14	6	AR102515	0.771428571
23652	10.8	7.8	14	6	AR262818	0.771428571
23653	10.8	7.8	14	6	AX467088	0.771428571
c23654	10.8	7.8	14	6	BD066371	0.771428571
942	13.8	9.9	18	6	BD074024	0.766666667
195	15.2	10.9	20	6	AX323427	0.76
c12559	11.4	8.2	15	6	AR000458	0.76
12560	11.4	8.2	15	6	AR008358	0.76
12561	11.4	8.2	15	6	AR030667	0.76
12562	11.4	8.2	15	6	AR033686	0.76
12563	11.4	8.2	15	6	AR053773	0.76
12564	11.4	8.2	15	6	AR113508	0.76
12565	11.4	8.2	15	6	AR137837	0.76
c12566	11.4	8.2	15	6	I15710	0.76
c12567	11.4	8.2	15	6	I26924	0.76
12568	11.4	8.2	15	6	I57915	0.76
60657	9.8	7.1	13	6	A06066	0.753846154
c60658	9.8	7.1	13	6	A06067	0.753846154
60659	9.8	7.1	13	6	A16579	0.753846154
c60660	9.8	7.1	13	6	A16580	0.753846154

c60661	9.8	7.1	13	6	AR175354	0.753846154
c60662	9.8	7.1	13	6	AR175358	0.753846154
c60663	9.8	7.1	13	6	AR175361	0.753846154
c60664	9.8	7.1	13	6	AR175363	0.753846154
c60665	9.8	7.1	13	6	AR175364	0.753846154
c60666	9.8	7.1	13	6	AR285093	0.753846154
60667	9.8	7.1	13	6	AR285103	0.753846154
c2815	12.8	9.2	17	6	AR011799	0.752941176
c2816	12.8	9.2	17	6	AR192421	0.752941176
c2817	12.8	9.2	17	6	AX421994	0.752941176
c2818	12.8	9.2	17	6	AX422971	0.752941176
2819	12.8	9.2	17	6	AX673768	0.752941176
c2820	12.8	9.2	17	6	AX724290	0.752941176
c2821	12.8	9.2	17	6	BD104946	0.752941176
6950	12	8.6	16	6	AR264860	0.75
1489	13.4	9.6	18	6	AX352825	0.744444444
1490	13.4	9.6	18	6	AX362670	0.744444444
c1491	13.4	9.6	18	12	AB069639	0.744444444
c34575	10.4	7.5	14	6	A09968	0.742857143
c34576	10.4	7.5	14	6	A40553	0.742857143
c34577	10.4	7.5	14	6	A89078	0.742857143
c34578	10.4	7.5	14	6	AR232833	0.742857143
c34579	10.4	7.5	14	6	AX030128	0.742857143
c34580	10.4	7.5	14	6	AX316449	0.742857143
c34581	10.4	7.5	14	6	BD066591	0.742857143
c34582	10.4	7.5	14	6	BD069009	0.742857143
c8416	11.8	8.5	16	6	AR011801	0.7375
8417	11.8	8.5	16	6	AX007612	0.7375
60	16.2	11.7	22	6	AR129513	0.736363636
c1848	13.2	9.5	18	6	A63088	0.733333333
c1849	13.2	9.5	18	6	AR018185	0.733333333
1850	13.2	9.5	18	6	AR106914	0.733333333
c1851	13.2	9.5	18	6	AR173918	0.733333333
c1852	13.2	9.5	18	6	AR268665	0.733333333
c1853	13.2	9.5	18	6	BD089837	0.733333333
c1854	13.2	9.5	18	12	AB068204	0.733333333
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18927	11	7.9	15	6	AR180150	0.733333333
18928	11	7.9	15	6	AR180787	0.733333333
c18929	11	7.9	15	6	AX028347	0.733333333
c4525	12.4	8.9	17	6	AX266079	0.729411765
4526	12.4	8.9	17	6	AX266080	0.729411765
c4527	12.4	8.9	17	6	AX727607	0.729411765
23655	10.8	7.8	15	6	A42347	0.72
23656	10.8	7.8	15	6	A44378	0.72
23657	10.8	7.8	15	6	A47165	0.72
23658	10.8	7.8	15	6	A56641	0.72
23659	10.8	7.8	15	6	A80362	0.72
c23660	10.8	7.8	15	6	A88333	0.72
c23661	10.8	7.8	15	6	A89423	0.72
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c23663	10.8	7.8	15	6	AR041808	0.72
c23664	10.8	7.8	15	6	AR041809	0.72
23665	10.8	7.8	15	6	AR073553	0.72
23666	10.8	7.8	15	6	AR111765	0.72
23667	10.8	7.8	15	6	AR133622	0.72
23668	10.8	7.8	15	6	AR179805	0.72

23669	10.8	7.8	15	6	AR193504	0.72
23670	10.8	7.8	15	6	AR254155	0.72
23671	10.8	7.8	15	6	AX081337	0.72
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23673	10.8	7.8	15	6	AX283281	0.72
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c23675	10.8	7.8	15	6	AX637266	0.72
c23676	10.8	7.8	15	6	AX742553	0.72
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c23678	10.8	7.8	15	6	BD066936	0.72
23679	10.8	7.8	15	6	I20495	0.72
c23680	10.8	7.8	15	6	I33987	0.72
23681	10.8	7.8	15	6	I33988	0.72
23682	10.8	7.8	15	6	I84720	0.72
c 449	14.4	10.4	20	6	AX293741	0.72
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6951	12	8.6	17	6	AX531436	0.705882353
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15260	11.2	8.1	16	6	AX255727	0.7
c15261		11.2	8.1	16	6 AX284046	0.7
c15262		11.2	8.1	16	6 AX572221	0.7

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"OM nucleic - nucleic search, using sw model"

"Run on: January 10, 2004, 12:51:50 ; Search time 288 Seconds"  
(without alignments)  
1302.854 Million cell updates/sec

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Scoring table: IDENTITY\_NUC  
" Gapop 10.0 , Gapext 1.0"

"Searched: 2552756 seqs, 1349719017 residues"

Total number of hits satisfying chosen parameters: 2466760

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 65000 summaries

Database : N\_Geneseq\_19Jun03:\*

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Pred. No. is the number of results predicted by chance to have a  
" score greater than or equal to the score of the result being printed,"  
and is derived by analysis of the total score distribution.

# SUMMARIES

8

Result	No.	Score	S/L	Query	Match	Length	DB	ID
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c 6	20	14.4	20	25	ABX12175	1		
c 7	20	14.4	20	25	ABX12198	1		
c 8	20	14.4	20	25	ABX12199	1		
c 9	20	14.4	20	25	ABX12200	1		
c 10	20	14.4	20	25	ABX12217	1		
c 11	20	14.4	20	25	ABX12218	1		
c 12	20	14.4	20	25	ABX12219	1		
c 13	20	14.4	20	25	ABX12220	1		
33	18	12.9	18	17	AAT50642	1		
c 62	17	12.2	17	20	AAX22550	1		
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398	15	10.8	15	17	AAT49817	1		
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401	15	10.8	15	17	AAT49823	1		
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407	15	10.8	15	17	AAT49835	1		
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413	15	10.8	15	17	AAT49813	1		
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25399	11	7.9	11	24	ABV62361	1		
25400	11	7.9	11	24	ABV69782	1		

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c9100	12	8.6	13	23	ABC63273	0.923076923
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9103	12	8.6	13	23	ABF24344	0.923076923
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c17420	11.4	8.2	13	23	ABC08446	0.876923077
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25461	11	7.9	13	23	ABH31315	0.846153846	
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c46849		10.4	7.5	13	23	ABF87482	0.8
46850	10.4	7.5	13	23	ABF87483	0.8	
46851	10.4	7.5	13	23	ABF90782	0.8	
c46852		10.4	7.5	13	23	ABF90783	0.8
46853	10.4	7.5	13	23	ABF92684	0.8	
c46854		10.4	7.5	13	23	ABF92685	0.8
46855	10.4	7.5	13	23	ABF95706	0.8	
c46856		10.4	7.5	13	23	ABF95707	0.8
46857	10.4	7.5	13	23	ABF95708	0.8	
c46858		10.4	7.5	13	23	ABF95709	0.8
46859	10.4	7.5	13	23	ABH00386	0.8	
c46860		10.4	7.5	13	23	ABH00387	0.8
46861	10.4	7.5	13	23	ABH00390	0.8	
c46862		10.4	7.5	13	23	ABH00391	0.8
46863	10.4	7.5	13	23	ABH00760	0.8	
c46864		10.4	7.5	13	23	ABH00761	0.8
46865	10.4	7.5	13	23	ABH12820	0.8	
c46866		10.4	7.5	13	23	ABH12821	0.8
c46867		10.4	7.5	13	23	ABH13554	0.8
46868	10.4	7.5	13	23	ABH13555	0.8	
c46869		10.4	7.5	13	23	ABH13558	0.8

46870	10.4	7.5	13	23	ABH13559	0.8	
c46871		10.4	7.5	13	23	ABH15230	0.8
46872	10.4	7.5	13	23	ABH15231	0.8	
c46873		10.4	7.5	13	23	ABH26444	0.8
46874	10.4	7.5	13	23	ABH26445	0.8	
c46875		10.4	7.5	13	23	ABH35974	0.8
46876	10.4	7.5	13	23	ABH35975	0.8	
c46877		10.4	7.5	13	23	ABH36660	0.8
46878	10.4	7.5	13	23	ABH36661	0.8	
46879	10.4	7.5	13	23	ABH36974	0.8	
c46880		10.4	7.5	13	23	ABH36975	0.8
c46881		10.4	7.5	13	23	ABH37502	0.8
46882	10.4	7.5	13	23	ABH37503	0.8	
c46883		10.4	7.5	13	23	ABH42002	0.8
46884	10.4	7.5	13	23	ABH42003	0.8	
46885	10.4	7.5	13	23	ABH47622	0.8	
c46886		10.4	7.5	13	23	ABH47623	0.8
c46887		10.4	7.5	13	23	ABH50618	0.8
46888	10.4	7.5	13	23	ABH50619	0.8	
c46889		10.4	7.5	13	23	ABH61554	0.8
46890	10.4	7.5	13	23	ABH61555	0.8	
46891	10.4	7.5	13	23	ABH63202	0.8	
c46892		10.4	7.5	13	23	ABH63203	0.8
c11646		11.8	8.5	15	14	AAQ50548	0.786666667
c11647		11.8	8.5	15	17	AAT89133	0.786666667
c11648		11.8	8.5	15	17	AAT65005	0.786666667
11649	11.8	8.5	15	18	AAT98897	0.786666667	
c11650		11.8	8.5	15	19	AAV54266	0.786666667
c11651		11.8	8.5	15	19	AAV07304	0.786666667
c11652		11.8	8.5	15	20	AAX55348	0.786666667
c11653		11.8	8.5	15	21	AAA66971	0.786666667
c11654		11.8	8.5	15	22	AAF47174	0.786666667
c11655		11.8	8.5	15	22	AAF47176	0.786666667
11656	11.8	8.5	15	22	AAF52889	0.786666667	
11657	11.8	8.5	15	22	AAF52890	0.786666667	
11658	11.8	8.5	15	22	AAF52891	0.786666667	
11659	11.8	8.5	15	24	ABV99795	0.786666667	
c11660		11.8	8.5	15	24	AAS99376	0.786666667
c25464		11	7.9	14	22	AAF29395	0.785714286
58	17.2	12.4	22	20	AAX37644	0.781818182	
c6108	12.4	8.9	16	13	AAQ29808	0.775	
c6109	12.4	8.9	16	18	AAT70569	0.775	
6110	12.4	8.9	16	21	AAC67540	0.775	
14619	11.6	8.3	15	21	AAZ44834	0.773333333	
c14620		11.6	8.3	15	24	ABN81456	0.773333333
14621	11.6	8.3	15	24	ABL36320	0.773333333	
c31153		10.8	7.8	14	16	AAQ74120	0.771428571
31154	10.8	7.8	14	18	AAT98896	0.771428571	
31155	10.8	7.8	14	20	AAX55199	0.771428571	
31156	10.8	7.8	14	20	AAX14792	0.771428571	
31157	10.8	7.8	14	21	AAF20768	0.771428571	
31158	10.8	7.8	14	21	AAF21471	0.771428571	
31159	10.8	7.8	14	21	AAA34646	0.771428571	
1369	13.8	9.9	18	20	AAX28045	0.766666667	
345	15.2	10.9	20	24	AAD24930	0.76	
17483	11.4	8.2	15	15	AAQ74479	0.76	
17484	11.4	8.2	15	16	AAT04287	0.76	

c17485	11.4	8.2	15	16	AAQ80594	0.76
17486	11.4	8.2	15	21	AAZ62841	0.76
c17487	11.4	8.2	15	22	AAF47175	0.76
17488	11.4	8.2	15	22	AAF51493	0.76
17489	11.4	8.2	15	22	AAF51494	0.76
17490	11.4	8.2	15	22	AAF51495	0.76
c17491	11.4	8.2	15	22	AAF53419	0.76
c17492	11.4	8.2	15	22	AAF53420	0.76
c17493	11.4	8.2	15	22	AAF53421	0.76
17494	11.4	8.2	15	22	AAF53669	0.76
17495	11.4	8.2	15	22	AAF53670	0.76
17496	11.4	8.2	15	22	AAF53671	0.76
17497	11.4	8.2	15	24	ABV99783	0.76
17498	11.4	8.2	15	24	ABX00692	0.76
c17499	11.4	8.2	15	24	ABK96301	0.76
c17500	11.4	8.2	15	24	ABK81430	0.76
c17501	11.4	8.2	15	24	ABL52104	0.76
c17502	11.4	8.2	15	24	ABK12736	0.76
c17503	11.4	8.2	15	24	AAL45302	0.76
c17504	11.4	8.2	15	24	ABL01115	0.76
17505	11.4	8.2	15	24	AAD25425	0.76
c17506	11.4	8.2	15	24	AAS16721	0.76
c17507	11.4	8.2	15	24	ABK29978	0.76
17508	11.4	8.2	15	25	AAD53520	0.76
c3999	12.8	9.2	17	16	AAQ91452	0.752941176
c4000	12.8	9.2	17	18	AAX75159	0.752941176
c4001	12.8	9.2	17	19	AAV07298	0.752941176
c4002	12.8	9.2	17	20	AAV93414	0.752941176
c4003	12.8	9.2	17	20	AAV93413	0.752941176
c4004	12.8	9.2	17	20	AAV91007	0.752941176
4005	12.8	9.2	17	21	AAA79844	0.752941176
c4006	12.8	9.2	17	24	ABS97987	0.752941176
c4007	12.8	9.2	17	24	ABK17683	0.752941176
c4008	12.8	9.2	17	24	ABK18660	0.752941176
c4009	12.8	9.2	17	24	ABL31561	0.752941176
9114	12	8.6	16	24	AAL44022	0.75
2116	13.4	9.6	18	14	AAQ50940	0.744444444
2117	13.4	9.6	18	24	ABL88809	0.744444444
c46893	10.4	7.5	14	15	AAQ78441	0.742857143
c46894	10.4	7.5	14	19	AAV99069	0.742857143
46895	10.4	7.5	14	20	AAA17659	0.742857143
46896	10.4	7.5	14	21	AAA26158	0.742857143
c 492	14.8	10.6	20	24	ABS60987	0.74
c11661	11.8	8.5	16	16	AAQ91451	0.7375
c11662	11.8	8.5	16	19	AAV07300	0.7375
c11663	11.8	8.5	16	19	AAV07038	0.7375
c11664	11.8	8.5	16	21	AAZ88440	0.7375
11665	11.8	8.5	16	21	AAZ97664	0.7375
11666	11.8	8.5	16	25	ABT34281	0.7375
11667	11.8	8.5	16	25	ABX14989	0.7375
122	16.2	11.7	22	19	AAV52705	0.736363636
c2527	13.2	9.5	18	18	AAT94803	0.733333333
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2529	13.2	9.5	18	21	AAA92575	0.733333333
2530	13.2	9.5	18	21	AAA10567	0.733333333
c2531	13.2	9.5	18	21	AAZ98709	0.733333333
c2532	13.2	9.5	18	22	AAD20365	0.733333333

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c2535	13.2	9.5	18	24	ABL45037	0.733333333
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25466	11	7.9	15	20	AAX31800	0.733333333
25467	11	7.9	15	20	AAX31164	0.733333333
c25468	11	7.9	15	22	AAI67293	0.733333333
25469	11	7.9	15	22	AAF50721	0.733333333
25470	11	7.9	15	22	AAF50722	0.733333333
25471	11	7.9	15	22	AAF50723	0.733333333
25472	11	7.9	15	22	AAF50724	0.733333333
25473	11	7.9	15	22	AAF50725	0.733333333
c25474	11	7.9	15	24	AAL39485	0.733333333
25475	11	7.9	15	24	ABK92567	0.733333333
25476	11	7.9	15	24	ABK92619	0.733333333
c25477	11	7.9	15	24	AAS98658	0.733333333
25478	11	7.9	15	24	ABK32117	0.733333333
25479	11	7.9	15	24	ABK32754	0.733333333
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6112	12.4	8.9	17	17	AAT14821	0.729411765
c6113	12.4	8.9	17	21	AAF02929	0.729411765
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c6115	12.4	8.9	17	22	ABA80624	0.729411765
6116	12.4	8.9	17	22	ABA80625	0.729411765
c31160	10.8	7.8	15	13	AAQ22446	0.72
31161	10.8	7.8	15	14	AAQ45774	0.72
c31162	10.8	7.8	15	16	AAT56203	0.72
31163	10.8	7.8	15	16	AAT44432	0.72
31164	10.8	7.8	15	16	AAQ97685	0.72
31165	10.8	7.8	15	16	AAQ88720	0.72
31166	10.8	7.8	15	17	AAX66553	0.72
31167	10.8	7.8	15	17	AAX24191	0.72
31168	10.8	7.8	15	17	AAX33907	0.72
31169	10.8	7.8	15	17	AAT44237	0.72
c31170	10.8	7.8	15	17	AAT50229	0.72
c31171	10.8	7.8	15	17	AAT50231	0.72
31172	10.8	7.8	15	17	AAT14843	0.72
c31173	10.8	7.8	15	19	AAV48892	0.72
31174	10.8	7.8	15	20	AAZ10279	0.72
c31175	10.8	7.8	15	22	AAS04346	0.72
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31177	10.8	7.8	15	22	AAF60907	0.72
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c31180	10.8	7.8	15	22	AAF45991	0.72
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31188	10.8	7.8	15	22	AAF51501	0.72
31189	10.8	7.8	15	22	AAF51502	0.72
c31190	10.8	7.8	15	22	AAF51598	0.72
c31191	10.8	7.8	15	22	AAF51599	0.72
31192	10.8	7.8	15	22	AAF52888	0.72

31193	10.8	7.8	15	22	AAF52892	0.72
31194	10.8	7.8	15	22	AAH49214	0.72
31195	10.8	7.8	15	24	ABS97484	0.72
31196	10.8	7.8	15	24	AAL46735	0.72
31197	10.8	7.8	15	24	ABL01599	0.72
31198	10.8	7.8	15	24	ABA97499	0.72
691	14.4	10.4	20	24	ABZ31506	0.72
c 692	14.4	10.4	20	24	ABV73609	0.72
c 693	14.4	10.4	20	24	ABI93783	0.72
7293	12.2	8.8	17	16	AAT03827	0.717647059
c7294	12.2	8.8	17	20	AAV93415	0.717647059
7295	12.2	8.8	17	20	AAV91297	0.717647059
c7296	12.2	8.8	17	21	AAF01989	0.717647059
7297	12.2	8.8	17	21	AAA55987	0.717647059
7298	12.2	8.8	17	21	AAA24962	0.717647059
7299	12.2	8.8	17	23	ABK00576	0.717647059
7300	12.2	8.8	17	24	ABV79506	0.717647059
7301	12.2	8.8	17	24	ABV90893	0.717647059
7302	12.2	8.8	17	24	ABV90895	0.717647059
7303	12.2	8.8	17	24	ABV90899	0.717647059
c7304	12.2	8.8	17	24	ABV91049	0.717647059
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7306	12.2	8.8	17	24	ABK97683	0.717647059
7307	12.2	8.8	17	24	ABN00535	0.717647059
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c7309	12.2	8.8	17	24	ABN01272	0.717647059
7310	12.2	8.8	17	24	ABN07839	0.717647059
c7311	12.2	8.8	17	24	ABN09666	0.717647059
c7312	12.2	8.8	17	25	ABT34389	0.717647059
7313	12.2	8.8	17	25	ABT40165	0.717647059
7314	12.2	8.8	17	25	ACA07738	0.717647059
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c7316	12.2	8.8	17	25	ACA09103	0.717647059
7317	12.2	8.8	17	25	ABZ65014	0.717647059
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17510	11.4	8.2	16	14	AAQ40622	0.7125
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c4011	12.8	9.2	18	19	AAV07301	0.711111111
4012	12.8	9.2	18	21	AAA92609	0.711111111
4013	12.8	9.2	18	21	AAA92642	0.711111111
c 867	14.2	10.2	20	16	AAT08224	0.71
c 868	14.2	10.2	20	16	AAQ81567	0.71
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c 870	14.2	10.2	20	16	AAQ80880	0.71
c 871	14.2	10.2	20	16	AAQ91455	0.71
c 872	14.2	10.2	20	19	AAV07290	0.71
c 873	14.2	10.2	20	19	AAV07037	0.71
c 874	14.2	10.2	20	20	AAV99212	0.71
c 875	14.2	10.2	20	21	AAZ88439	0.71
876	14.2	10.2	20	22	AAD05958	0.71
c 877	14.2	10.2	20	24	AAD41746	0.71
c 878	14.2	10.2	20	25	ABT23628	0.71
c38174	10.6	7.6	15	24	ABN81420	0.706666667
c38175	10.6	7.6	15	24	ABN80551	0.706666667
c9115	12	8.6	17	21	AAF02799	0.705882353
9116	12	8.6	17	24	ABV90232	0.705882353
9117	12	8.6	17	24	ABV90233	0.705882353

9118	12	8.6	17	24	ABV90234	0.705882353
9119	12	8.6	17	24	ABV90235	0.705882353
9120	12	8.6	17	24	ABV90236	0.705882353
9121	12	8.6	17	24	ABV90237	0.705882353
c2118	13.4	9.6	19	21	AAA82923	0.705263158
2119	13.4	9.6	19	21	AAA51763	0.705263158
c2120	13.4	9.6	19	22	AAH58085	0.705263158
c2121	13.4	9.6	19	24	ABL43426	0.705263158
c2122	13.4	9.6	19	24	ABL43434	0.705263158
1108	14	10.1	20	21	AAA58421	0.7
c20880		11.2	8.1	16	13 AAQ29793	0.7
c20881		11.2	8.1	16	13 AAQ29795	0.7
20882	11.2	8.1	16	14	AAQ52859	0.7
c20883		11.2	8.1	16	21 AAA74719	0.7
20884	11.2	8.1	16	22	AAS56873	0.7
c20885		11.2	8.1	16	24 ABZ34019	0.7
c20886		11.2	8.1	16	24 AAI68609	0.7